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AMENDMENT UNDER 37 C.F.R. § 1.116  
U.S. Application No. 10/038,585  
Attorney Docket No. Q67992

**AMENDMENTS TO THE CLAIMS**

**This listing of claims will replace all prior versions and listings of claims in the application:**

**LISTING OF CLAIMS:**

1. (previously presented): A method of monitoring a proportion of a component in a gaseous mixture having at least two components and contained in an electrical switchgear enclosure, said method comprising:

measuring the pressure, the temperature, and the density of the gas mixture using at least one sensor mounted on said enclosure, and

determining said proportion by processing the measured values in a data-processing unit, so as to enable the mixture to be monitored non-intrusively.

2/ (original): A method according to claim 1, in which said proportion of a component in the mixture is calculated by the data-processing unit which is programmed to solve the thermodynamic state equations of said components.

3/ (original): A method according to claim 1, in which said proportion of a component in the mixture is determined by the data-processing unit which stores a data table in a memory, said data table containing a plurality of data items representative of various proportions of said component in correspondence with data items representative of various measurements of the pressure, of the temperature, and of the density of the gas mixture containing said component.